

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	US-5072027-\$.DID.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 08:32
L2	233	560/217.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 08:33
L3	17323	azeotrope	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 08:33
L4	44	I2 and I3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 09:03
L5	1	("6147252").URPN.	USPAT	OR	ON	2005/05/24 08:53
L6	1512358	continuous	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 09:03
L7	295	"I44" and I6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 09:04
L8	13	I4 and I6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 09:10
L9	16	"8701337"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 09:18
L10	2	"6147242".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 09:19
L11	2	"6147252".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 09:20
L12	2	"2916512".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 09:20
L13	2	"3686268".PN.	USPAT; USOCR	OR	ON	2005/05/24 09:24

L14	1	"4202990".PN.	USPAT; USOCR	OR	ON	2005/05/24 09:27
L15	8	("3686268").URPN.	USPAT	OR	ON	2005/05/24 10:47
L16	29678	butyl adj acrylate	USPAT	OR	ON	2005/05/24 10:47
L17	3524	film adj evaporator	USPAT	OR	ON	2005/05/24 10:48
L18	194	I16 and I17	USPAT	OR	ON	2005/05/24 10:48
L19	6	I16 same I17	USPAT	OR	ON	2005/05/24 10:48
L20	761	tetraalkyl adj titanate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 13:34
L21	5	I2 and I20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 13:38
L22	14737	polymerization adj inhibitor	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 13:38
L23	26	I20 and I22	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/05/24 13:39

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	2	US-5072027-\$.DID.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 08:32
2	BRS	L2	233	560/217.ccls.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 08:33
3	BRS	L3	17323	azeotrope	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 08:33
4	BRS	L4	44	l2 and l3	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 09:03
5	BRS	L5	1	("6147252").URPN.	USPAT	2005/05/24 08:53
6	BRS	L6	151235 8	continuous	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 09:03

	Comments	Error Definition	Errors
1			
2			
3			
4			
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6			

	Type	L #	Hits	Search Text	DBs	Time Stamp
7	BRS	L7	295	"144" and 16	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 09:04
8	BRS	L8	13	14 and 16	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 09:10
9	BRS	L9	16	"8701337"	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 09:18
10	BRS	L10	2	"6147242".pn.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 09:19
11	BRS	L11	2	"6147252".pn.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 09:20

	Comments	Error Definition	Errors
7			
8			
9			
10			
11			

	Type	L #	Hits	Search Text	DBs	Time Stamp
12	BRS	L12	2	"2916512".pn.	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 09:20
13	BRS	L13	2	"3686268".PN.	USPAT; USOCR	2005/05/24 09:24
14	BRS	L14	1	"4202990".PN.	USPAT; USOCR	2005/05/24 09:27
15	BRS	L15	8	("3686268").URPN.	USPAT	2005/05/24 10:47
16	BRS	L16	29678	butyl adj acrylate	USPAT	2005/05/24 10:47
17	BRS	L17	3524	film adj evaporator	USPAT	2005/05/24 10:48
18	BRS	L18	194	l16 and l17	USPAT	2005/05/24 10:48
19	BRS	L19	6	l16 same l17	USPAT	2005/05/24 10:48
20	BRS	L20	761	tetraalkyl adj titanate	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 13:34
21	BRS	L21	5	12 and 120	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 13:38

	Comments	Error Definition	Errors
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21			

	Type	L #	Hits	Search Text	DBs	Time Stamp
22	BRS	L22	14737	polymerization adj inhibitor	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 13:38
23	BRS	L23	26	120 and 122	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2005/05/24 13:39

	Comments	Error Definition	Errors
22			
23			

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NEWS	5	FEB 28	BABS - Current-awareness alerts (SDIs) available
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NEWS	14	APR 04	EPPFULL enhanced with additional patent information and new fields
NEWS	15	APR 04	EMBASE - Database reloaded and enhanced
NEWS	16	APR 18	New CAS Information Use Policies available online
NEWS	17	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/Caplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	18	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/Caplus
NEWS	19	MAY 23	GBFULL enhanced with patent drawing images
NEWS	20	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS EXPRESS			JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> acrylate
169703 ACRYLATE
33424 ACRYLATES
L1 178665 ACRYLATE
(ACRYLATE OR ACRYLATES)

=> tranesterif?
L2 37 TRANESTERIF?

=> transesterif?
L3 20166 TRANSESTERIF?

=> l1 and l3
L4 1055 L1 AND L3

=> azeotrop?
L5 23416 AZEOTROP?

=> l4 and l5
L6 86 L4 AND L5

=> continu?
L7 752134 CONTINU?

=> l6 and l7
L8 7 L6 AND L7

=> d l8 1-7 ti

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
TI Transesterification procedure for the continuous
production of alkyl (meth)acrylates from methyl (meth)
acrylates with repeated catalyst recycling

L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
 TI **Transesterification** process for the **continuous**
 manufacture of 2-(dimethylamino)ethyl **acrylate** from ethyl
acrylate and 2-(dimethylamino)-1-ethanol

L8 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
 TI **Transesterification** method for the **continuous**
 production of alkyl (meth)**acrylates** from alcohols and methyl
 (meth)**acrylates**

L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Curable composition containing epoxy and vinyl modified polyester

L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Polymers of vinylidioxolanylalkyl methacrylates for coatings

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Wood's metal as a polymerization inhibitor in the
transesterification of **acrylate** esters

L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Base-catalyzed reaction of 2-alkylaminoethanols with acrylic and
 methacrylic esters

=> d l8 1-3,6 and 7 ti fbib abs
 'AND' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

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 DALL ----- ALL, delimited (end of each field identified)
 DMAX ----- MAX, delimited for post-processing
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FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields

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CAN ----- List of CA abstract numbers without answer numbers

CBIB ----- AN, plus Compressed Bibliographic Data

DALL ----- ALL, delimited (end of each field identified)

DMAX ----- MAX, delimited for post-processing

FAM ----- AN, PI and PRAI in table, plus Patent Family data

FBIB ----- AN, BIB, plus Patent FAM

IND ----- Indexing data

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PATS ----- PI, SO

SAM ----- CC, SX, TI, ST, IT

SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers; SCAN must be entered on the same line as the DISPLAY, e.g., D SCAN or DISPLAY SCAN)

STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels

IALL ----- ALL, indented with text labels

IBIB ----- BIB, indented with text labels

IMAX ----- MAX, indented with text labels

ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms

HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT) containing hit terms

HITRN ----- HIT RN and its text modification

HITSTR ----- HIT RN, its text modification, its CA index name, and

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structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
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an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO. You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
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=> d l8 1-3,6,7 ti fbib abs

L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
TI **Transesterification** procedure for the **continuous**
production of alkyl (meth)**acrylates** from methyl (meth)
acrylates with repeated catalyst recycling

AN 2004:587918 CAPLUS
DN 141:124115

TI **Transesterification** procedure for the **continuous**
production of alkyl (meth)**acrylates** from methyl (meth)
acrylates with repeated catalyst recycling

IN Ackermann, Jochen; Hiltner, Horst; Siegert, Hermann
PA Roehm GmbH & Co. KG, Germany
SO Ger. Offen., 16 pp.
CODEN: GWXXBX

DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10301007	A1	20040722	DE 2003-10301007	20030113
	WO 2004063140	A1	20040729	WO 2003-EP13060	20031121
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				DE 2003-10301007	A 20030113

OS MARPAT 141:124115

AB An procedure for the **continuous** production of alkyl (meth)
acrylates (e.g., iso-Bu methacrylate) by the **continuous**
catalytic **transesterification** of Me (meth)**acrylates**
with high-boiling alcs. (e.g., isobutanol) is described. A very high
space-time velocity and product yield can be achieved. This process
enables the reuse of homogeneous **transesterification** catalyst
several times and thus reduces the excipient costs; process flow diagrams
are presented.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
 TI **Transesterification** process for the **continuous**
 manufacture of 2-(dimethylamino)ethyl **acrylate** from ethyl
acrylate and 2-(dimethylamino)-1-ethanol

AN 2003:859416 CAPLUS

DN 139:338322

TI **Transesterification** process for the **continuous**
 manufacture of 2-(dimethylamino)ethyl **acrylate** from ethyl
acrylate and 2-(dimethylamino)-1-ethanol

IN Gendarme, Jean Philippe; Herbst, Gilles; Riondel, Alain

PA ATOFINA, Fr.

SO Fr. Demande, 13 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2839070	A1	20031031	FR 2002-5438	20020430
	WO 2003093218	A1	20031113	WO 2003-FR1173	20030414
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
	PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,				
	UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
	KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				
	FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				
	BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				FR 2002-5438	A 20020430

AB A **transesterification** process for the **continuous**
 manufacture of 2-(dimethylamino)ethyl **acrylate** from Et
acrylate and 2-(dimethylamino)-1-ethanol in the presence of a
transesterification catalyst (e.g., tetra-Et titanate) and a
 polymerization inhibitor (e.g., hydroquinone); a process flow diagram is
 presented.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

TI **Transesterification** method for the **continuous**
 production of alkyl (meth)**acrylates** from alcohols and methyl
 (meth)**acrylates**

AN 2003:532627 CAPLUS

DN 139:85788

TI **Transesterification** method for the **continuous**
 production of alkyl (meth)**acrylates** from alcohols and methyl
 (meth)**acrylates**

IN Ackermann, Jochen; Gropp, Udo; Hiltner, Horst; Lausch, Hans-Rolf;

Lunt-Rieg, Ingrid; Siegert, Hermann; Carloff, Ruediger

PA Roehm GmbH & Co. KG, Germany

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003055837	A1	20030710	WO 2002-EP13828	20021206
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM,				
	HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,				

LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
 PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,
 US, UZ, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10200171 A1 20030710 DE 2002-10200171 A 20020104
 EP 1465859 A1 20041013 EP 2002-799053 20021206
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
 DE 2002-10200171 A 20020104
 WO 2002-EP13828 W 20021206
 BR 2002015458 A 20041123 BR 2002-15458 20021206
 DE 2002-10200171 A 20020104
 WO 2002-EP13828 W 20021206

OS MARPAT 139:85788

AB A method for the **continuous** production of alkyl (meth)
acrylates (e.g., Bu methacrylate) by the
transesterification of Me (meth)**acrylate** with an alc.
 (e.g., 1-butanol) having a higher b.p. than methanol is described using
azeotropic distillation for removal of the byproduct methanol and
 thin-film evaporation for recovery of the alkyl (meth)**acrylate**. A
 process flow diagram is presented.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Wood's metal as a polymerization inhibitor in the
transesterification of acrylate esters

AN 1966:465537 CAPLUS

DN 65:65537

OREF 65:12209b-d

TI Wood's metal as a polymerization inhibitor in the
transesterification of acrylate esters

IN Zimmt, Werner S.

PA E. I. du Pont de Nemours & Co.

SO 2 pp.

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3250781		19660510	US	19631101

GI For diagram(s), see printed CA Issue.

AB A vessel equipped with a stirrer and a fractionating column was charged
 with 450 parts Me methacrylate, 2 parts Bu₂SnO, 2 parts p-anilinophenol,
 and 100 parts Wood's metal. The mixture was brought to reflux with vigorous
 stirring, small amts. of H₂O and Me methacrylate were distilled, 50 parts
 3-(β-hydroxyethyl)spirocyclohexane[2.2]oxazolidine was rapidly added,
 and the mixture refluxed 5 min. The temperature at the head of the
 distillation column

was dropped to 65°, removal of the MeOH-Me methacrylate
azeotrope continued 15-20 min., the rate of take-off
 increased, and the rest of the MeOH removed with some Me methacrylate. In
 1 hr. the mixture was cooled and decanted from the Wood's metal. Similarly
 prepared was 3-(2-methacryloyloxyethyl)-2,2-dimethyloxazolidine (I).

L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

TI Base-catalyzed reaction of 2-alkylaminoethanols with acrylic and
 methacrylic esters

AN 1958:15543 CAPLUS

DN 52:15543

OREF 52:2746e-i,2747a-b

TI Base-catalyzed reaction of 2-alkylaminoethanols with acrylic and methacrylic esters

AU Sims, Homer J.; de Benneville, Peter L.; Kresge, A. J.

CS Rohm & Haas Co., Philadelphia, PA

SO Journal of Organic Chemistry (1957), 22, 787-9
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DT Journal

LA Unavailable

OS CASREACT 52:15543

AB Reaction of RNHCH₂CH₂OH (I) with CH₂:CMeCO₂Me (II) in the presence of (iso-PrO)₃Al gave H₂C:CR'CO₂CH₂CH₂NHR (III); with 2-tert-alkylaminoethanols it gave the corresponding ester; with less branched 2-alkylaminoethanols, it led to high-boiling mixts., owing to a predominance of amide-forming side reactions. II (100 g.), 0.5 mole I, 6.7 g. bi-β-naphthol (IV) inhibitor, and 1 g. (iso-PrO)₃Al refluxed and distilled 24 hrs. through a 6 in. Vigreux column with a total reflux-partial take-off stillhead, the MeOH-II azeotrope collected at 65° (stillhead temperature) with distillation temperature kept below 70° and the distillate (80% MeOH) redistd. through a 12 in. packed column gave fractions recorded on the basis of g./100 g. I [I, fraction, weight, b.p., NE (neutralization equivalent weight by acid titration), HE (hydrogenation equivalent weight by quant. hydrogenation), % N given]: Ia (I, R = Me), a, 10 g., b1.0 44-58°, 257, 359, 8.1; b, 22 g., b0.8 58-123°, 495, 141, 7.7; c, 15.9 g., b0.8 123°, 1829, 167, 7.3; d, 20.7 g., b1.0 123-6°, 1735, 150, 7.1; e, 16.0 g., b1.5 126-45°, 831, 135, 7.4; f, residue 83 g. Ib (I, R = Me₂CH), a, 13.8 g., b28 99-113°, -, -, 11.2; b, 19 g., b28 115°, 221, 285, 9.0; c, 3.5 g., b28 115-55°, -, -, -; d, 30.2 g., b28 155-85°, 821, 257, 6.6; e, 10.0 g., b28 185°, -, -, 6.4; f, residue 70.5 g. Ic (I, R = Me₃C), a, 19.5 g., b30 105-16°, 165, -, 8.5; b, 20.4 g., b30 117°, 183, -, 7.8; c, 56 g., b30 120°, 185, 198, 7.5; d, 6.0 g., b30 122°, 190, 181, 7.5; e, 11.0 g., b30 122-7°, 242, 155, 5.6; f, residue 19.0 g.; the combined fractions b, c, and d distilled at 117-22°/30 mm. yielded 52-80% IIIa (III, R' = Me, R = Me₃C) from Ic. Reactions were carried out in essentially the same manner using NaOMe or (Me₃CO)₄Ti. Metallic Na used as catalyst was dissolved in Ic prior to the addition of II. Ic (58.5 g.), 86 g. H₂C:CHCO₂Me, 7.2 g. IV, and 1 g. (iso-PrO)₃Al distilled 10 hrs. gave 29 g. fraction, b. 65-78°. Distillation was continued in vacuo and the product (50 g., b13 90-100°) redistd. to give tert-butylaminoethyl acrylate (IIIb) (III, R' = H, R = Me₃C). H₂C:CHCO₂Et (200 g.), 14 g. IV, 173 g. Me₃CCH₂CMe₂NHCH₂CH₂OH (cf. Bortnick, et al., C.A. 51, 1117e), and 2 g. (iso-PrO)₃Al was distilled 21 hrs. to give 53 g. product b. 74-80°, the temperature raised, 74 g. excess H₂C:CHCO₂Et collected, and the remainder distilled in vacuo to give 139 g. 2-(1,1,3,3-tetramethylbutyl)aminoethyl acrylate (IIIc) (III, R' = Me, R = C₈H₁₇), b25 140-7°. Similarly, II gave 63% of the corresponding methacrylate (IIId) (III, R' = Me, R = C₈H₁₇), b9 125-32°. Data for the 2-tertalkylaminoethyl esters, III, were tabulated (III, R', R, % yield, b.p./mm., n₂₅D, d₂₅, NE, HE given): IIIa, Me, Me₃C, 80, 100-5°/12, 1.4401, 0.9165, 185, 192; IIb, H, Me₃C, 66, 84-7°/12, 1.4396, 0.9305, 166, 176; IIIc, H, C₈H₁₇, 43, 129-31°/12, 1.4520, 0.9175, 224, 228; IIId, Me, C₈H₁₇, 63, 135-8°/12, 1.4535, 0.9130, 241, 254. IIIa was stable to 6 months storage at 0° and appeared to be considerably more stable than other reported 2-alkylaminoethyl esters. These new monomers could be polymerized in solution or in bulk by heating with a small amount of azoisobutyronitrile initiator. IIIa gave a hard, colorless, transparent polymer under these conditions.

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